

Digital Assets and Insolvency A Transnational Law Analysis

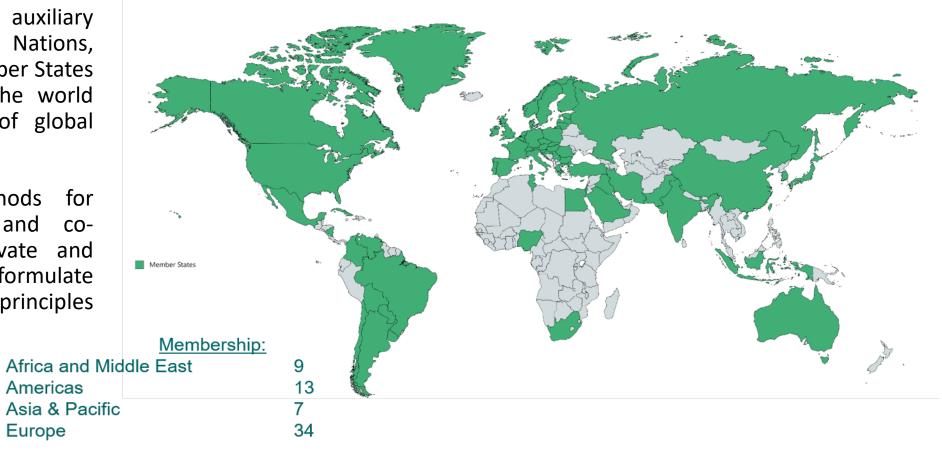
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Established in 1926 as an auxiliary organ of the League of Nations, UNIDROIT comprises 65 member States which cover over 74% of the world population and over 90% of global nominal GDP.

Purpose to develop methods for modernising, harmonising and ordinating international private and commercial law and to formulate uniform law instruments, principles and rules.





Structure: **Governing Council**

General Assembly

Americas

Europe

Secretariat

Working Groups and Committees



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Prius:

is it justified to have a special regime for digital assets?

If so, how?

- Scope: enforcement and insolvency. A question valid for both
- Legal Nature of cryptocurrencies and its consequences for enforcement/insolvency law
- The insolvency of the direct holder of cryptocurrencies
- The insolvency of the intermediary/custodian



Digital Assets and Private Law: the Project

- 2020-2022 Work Programme, a UNIDROIT Working Group established to develop legal instrument containing principles and legislative guidance in the area of private law and digital assets.
- Project to provide legislative guidance and develop best practices and international standards, enabling jurisdictions to take common approach to legal issues relating to the legal nature, transfer and use of digital assets.
- Variety of digital assets covered: cryptocurrencies (Bitcoin, Ethereum) digital tokens linked to real world (gold), or real estate.
- The principle of technological neutrality is key to ensure relevance (i.e., not just DLT). Areas of key commercial importance such as:
 - legal position of intermediaries (exchanges and custodians)
 - secured transactions
 - insolvency,
 - and the identification of the applicable law in cross-border transactions



- Experts represent different legal systems with expertise in a number of relevant fields such as property law or secured transactions.
- Several international, regional, and private organisations in the Working Group:
- Uniform Law Commission (US)
- The World Bank Group
- UNCITRALThe International Monetary Fund (IMF)
- The Hague Conference on Private International Law (HCCH)
- The European Central Bank (ECB)
- The European Banking Authority (EBA)
- The American Law Institute (ALI)
- The Central Bank of Italy (Banca d'Italia)
- Kozolchyk National Law Center (NatLaw)
- The Law Commission of England and Wales
- Asociación Americana de Derecho Internacional Privado (ASADIP)



Insolvency and Digital Assets: General Remarks

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- Scope: enforcement and insolvency. A question valid for both
- Many types of Digital Assets:
- Bitcoin as example:

Bitcoin is the record, contained in code recorded on the blockchain, of a series of transactions recording the "creation" and "transfer" of "something". That subject matter of that record, the bitcoin, is not even a piece of code. What the "owner" of bitcoin has is the ability to generate a transfer, in return for which the transferee is prepared to transfer valuable consideration, which is likely to be fiat or cryptocurrency, or a real-world asset.



A representation of transactions on ledger + public record + private key



Is a such "reality" possibly subject to property rights?

- Transferability
- Exclusivity, etc



 Exogenous tokens: have a necessary connection with assets existing outside the blockchain (e.g., securities): Analogy easier

Definition of UPDAPL: an electronic record which is capable of being subject to control

the digital asset, or the relevant protocol or system, confers on that person:

- (i) the exclusive ability to prevent others from obtaining substantially all of the benefit from the digital asset;
- (ii) the ability to obtain substantially all of the benefit from the digital asset; and (iii) the exclusive ability to transfer the abilities in sub-paragraphs (a)(i), (a)(ii)







General Remarks (II) (cont.)

Does this matter for purposes of insolvency estate?

I don't think so: Universality Principle + Value inherent to cryptocurrency...

Moscow Arbitrazh Court, March 2018:

Unreasonable results

The Russian courts have also considered the issue in an insolvency context. Bankrupt disclosed having bitcoin, but argued it was not form of property known to Russian law, and hence out of reach of IP. Successful on 1 instance, decision was overturned on appeal, on the grounds that creditors could not be deprived of value that is the property of the debtor unless expressly excluded by law.

Need to draw analogy with treatment of intangibles (intellectual property, etc)





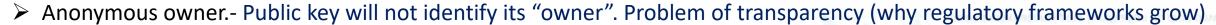




Several jurisdictions legislate to clarify for ST and Insolvency purposes

Direct Holding of Cryptocurrency by insolvent

Which characteristics would warrant special treament?



- ➤ Need to use a private key.- collaboration of debtor will be necessary
- Widespread use of intermediaries, with different roles.- Granular approach needed
- > De-centralised nature of some DA: eliminates centralized entity against which freezing/attachment order can be served
- Very common "international component"
- Known or not, bitcoin part of the estate (general inso rule)
- Possession of computer/phone/item where bitcoin stored
- Obligation to disclose/provide inventory
 - > Criminal offence/punitive damages/civil sanctions may ensue
 - ➤ Debtor must disclose existence and provide key for control
- Case where Security Right over bitcoin exists presents fewer problems
 - Secured creditor will know, should hold private key (even public record thru outright transfer)
 - Collection either by direct sale or through IP, depending on system



- Internet browser history
- Internet browser extensions (cryptowallets)
- Cryptocurrency wallet downloads
- Transfers between bank accounts/exchanges
- E-mail evidencing login-transactions
- Logs from secod factor identification





Tracing of those using public key, but identity of given actor that authorised a transaction not



Insolvency and Digital Assets: Indirect Holding



- Countries which divide property into tangible and intangible may limit property rights on the latter. Some relevant early case law (origin of insolvencies, hacks):
 - ➤ Mt. Gox in Japan: court decided that assets were not subject to property law, which meant that the clients had only contractual claim against Mt. Gox, once Japan's largest bitcoin exchange. Other cases:
 - ➤ Bitgrail, Italian law: assets were treated as proprietary. However, treated as being mixed by custodian with other assets, which resulted in the clients only having a contractual claim against the custodian
 - ➤ Cryptopia insolvency in New Zealand: assets were considered as commingled with other clients' assets, but the courts assumed that a trust had come into place. A property law interest was therefore found to exist in the assets held by Cryptopia for its clients. (...)
- Recent cases, especially in the US, have presented similar problems and legal analysis by the courts has been relatively similar (origin of insolvencies, business-related):
 - ➤ Voyager, Celsius, FTX, BlockFi, Genesis
 - ➤ Chapter 11 Bankruptcy Code applied (...)





Holding of Cryptocurrency by Intermediary/Custodian: Analogy with intermediated securities?



- Many different forms of intermediaries and custodians, each with their specificities and possible bespoke rules
 in insolvency. Btw, isn't this a contradiction?
- Convenient to differentiate the two main functions:
- Exchange service providers (e.g. crypto-fiat exchange service providers)
- **Custodians** (store of bitcoin)
- Custodian stores/controls private keys and public keys with which the bitcoin are associated... but what is this exactly?



- Custodian owns bitcoin and owes personal obligation to the client to carry out its instructions
- Custodian only owes personal duties to the client in relation to safe custody of the private key



Importance of distinction in case of insolvency of intermediary

Otherwise IP of debtor orders intermediary to transfer bitcoin

Holding of Cryptocurrency by Intermediary/Custodian (II) (cont.): the insolvency of the intermediary



• In principle, ordinary insolvency law will apply (unlike financial institutions)

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Question boils down to the question <u>if clients have a proprietary</u> (Trust? Bailment?) <u>or personal claim</u> over bitcoins held by insolvent custodian

If proprietary, "owner" can claim delivery —or realisation and appropriation of proceeds



If personal, "owner" left with a claim ranking pari-passu

Analysis may vary according to applicable law, but cryptocurrencies an international asset, transactions are cross-border: a case for effective harmonization initiative

- US case law is approaching the question on ad hoc basis: will depend on the agreement between clients and intermediaries: e.g., Celsius, 3 types of accounts, beyond pure custody merely personal claim
- Also depends on type of account:
- Separate/segregated accounts
- Common/omnibus accounts (remember the Italian case, Bitgrail)





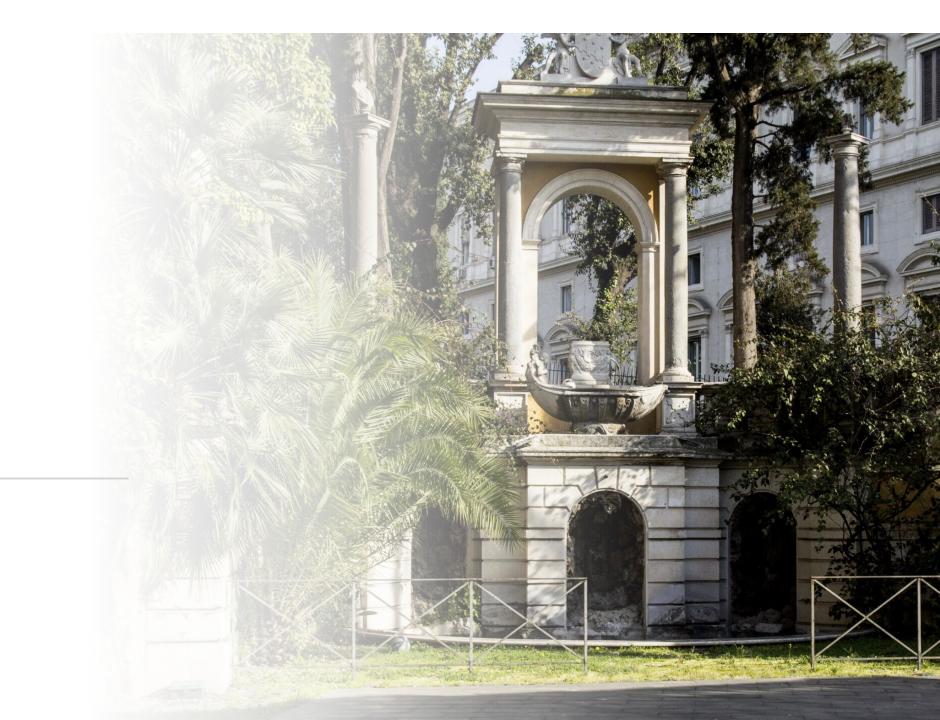
Holding of Cryptocurrency by Intermediary/Custodian (III) (cont.): the insolvency of the intermediary

- Analogy with intermediated securities: the need to protect the client**. Possible solutions:
 - Legal obligation for custodians to sufficiently identify assets with clients. This is indeed possible based on the functioning of the blockchain
 - Legal obligation to segregate assets of clients from those of investors, to avoid comingling
 - Need to provide adequate rule to allocate rights between clients in common accounts
 - In Civil Law countries, this might require ad hoc legislation; can be achieved through trust/bailment in Common Law jurisdictions

SOLUTION IN UNIDROIT PRINCIPLES FOR CUSTODIANS (Principle XIII):



- DA noy available for distribution to creditors of custodian (agnostic about insolvency estate question)
- Applicability to sub-custody
- (4) If a custodian enters into an insolvency-related proceeding, the insolvency representative must take reasonable steps:
 - (a) for the control of a digital asset maintained for the custodian's client to be changed to the control of that client or of a custodian nominated by that client;
- (5) Paragraphs (6) and (7) apply if all of the following requirements are fulfilled:
 - ➤ (a) C enters into insolvency-related proceeding;
 - > (b) DA of same description are maintained by the custodian for two or more clients as an undivided pool; and
 - > (c) quantity of DA maintained is less than aggregate quantity of DA of same description that it is obliged to maintain for those clients ('shortfall').
- [(6) The shortfall is met first by any digital assets of the same description maintained by the custodian for itself.]1
- (7) Any [remaining] shortfall shall be borne by the clients for whom the custodian maintains the digital assets as an undivided pool, in proportion to the respective quantity of digital assets of the same description that the custodian is obliged to maintain for those clients.



Thank you